Cal/Ecotox Exposure Factors for Ornate Shrew (Sorex ornatus)*

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Endpoint Type	Endpoint Value	Error	Range	Units	Sex	Life Stage	Location	Note	Reference
Body Weight - Mean			5.0 - 6.4	g	В	Adult	Lab	а	1
Body Weight - Mean	5.12	0.23 SE		g	В	Adult	Lab	b	2
Body Weight - Mean	6.23	0.76 SE		g	В	Adult	Lab	С	2
Body Weight - Mean			4.25 - 5.3	g	F	Adult	CA	d	3
Body Weight - Mean			4.17 - 5.86	g	M	Adult	CA	е	3
Body Weight - Mean			3.0 - 4.75	g	В	Juvenile	CA	f	3
Body Weight - Mean	3.7	0.3		g	В	Juvenile	Lab	g	1
Body Weight - Mean	0.5			g	NR	Neonate	Lab	h	1
Clutch or Litter Size	5.2		4 - 7	young/litter	F	Adult	Merced; CA	i	4
Duration of Incubation or Gestation	21			d	F	Adult	CA	j	3
Food Ingestion Rate	1.81	0.10 SE		g/g/d	В	Adult	Lab	k	2
Food Ingestion Rate	1.26	0.03 SE		g/g/d	В	Adult	Lab	1	2
Longevity			16 - 18	mo	NR	Adult	CA	m	3
Metabolic Rate			8.8 - 12.4	cc O2/g/hr	В	Adult	Lab	n	1
Metabolic Rate			5.8 - 9.4	cc O2/g/hr	В	Adult	Lab	0	1
Metabolic Rate	9.5	5.7		cc O2/g/hr	В	Juvenile	Lab	р	1
Time of Mating/ Laying	spring				В	Adult	CA	q	3
Time of Molt	review				NR	NR		r	5

Notes

- a range of mean weights during 3 seasons; N=9-22/season; winter summer; captured at Suisun and San Pablo Bay
- b N=5; Condition=non-breeding; captured at San Pablo Bay, Sonoma CA
- c N=3; Condition=breeding; captured at San Pablo Bay, Sonoma CA
- d range of mean monthly weights; N=1-15/mo; Jan.-Apr.; San Francisco Bay region; see citation for figure of seasonal changes in body weight
- e range of mean monthly weights; N=3-10/mo; Jan.-Apr.; San Francisco Bay region; see citation for figure of seasonal changes in body weight
- range of mean monthly weights; N=1-7/mo; Apr. Dec.; San Francisco Bay region; see citation for seasonal changes in body weight
- q N=7: summer: captured at Suisun and San Pablo Bay
- h N=NR; captured at San Pable and Suisun Bay
- i N=4; Kesterson
- j N=NR; San Francisco Bay region
- N=5; Condition=non-breeding; captured at San Pablo Bay, Sonoma CA
- N=3; Condition=breeding; captured at San Pablo Bay, Sonoma CA
- n maximum recorded lifespan; N=NR; San Francisco Bay region
- n range of mean maximal metabolic rates at 20C; N=9-22/season; winter summer; captured at Suisun and San Pablo Bay
- o range of mean minimal metabolic rates at 20C; N=9-22/season; winter summer; captured at Suisun and San Pablo Bay; also reported as 3.3 6.9 kcal/d
- p minimal metabolic rate at 20C; N=7; summer; captured at Suisun and San Pablo Bay
- q time of breeding; N=NR; San Francisco Bay region
- r N=NR

References

- 1 Newman, James R. and Robert L. Rudd. 1978. Minimum and maximum metabolic rates of Sorex sinuosus. Acta Theriol. 23:371-380.
- 2 Rust, Aileen K. 1978. Activity rhythms in the shrews, Sorex sinuosus Grinnell and Sorex trowbridgii Baird. Am. Midl. Nat. 99:369-382.
- Rudd, Robert L. 1955. Age, sex, and weight comparisons in three species of shrews. J. Mammal. 36:323-338.
- 4 Clark Jr., Donald R. 1987. Selenium accumulation in mammals exposed to contaminated California irrigation drainwater. Sci. Total Environ. 66:147-168.

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